

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 57070321 A

(43) Date of publication of application: 30.04.1982

(51) Int. Cl. F23N 5/00
F22B 35/00

(21) Application number: 55145806
(22) Date of filing: 20.10.1980

(71) Applicant: HITACHI LTD
(72) Inventor: OKUTSU SUMIYOSHI

(54) CONTROLLING METHOD OF BOILER

(57) Abstract:

PURPOSE: To enable to control the heat input to a boiler by a system wherein the calorific value of the coal under combustion can be estimated on-line real-time from the thermal output efficiency of the coal firing boiler.

CONSTITUTION: The fuel flow is determined by a fuel flow command circuit 2 based on the output of a thermal output demand signal circuit 1 set by the output demand signals of a generator and the like. On the other hand, the outputs of the thermal output demand signal circuit 1, a coal feed signal circuit 5 and a thermal efficiency inputting circuit 10 are inputted into a thermal efficiency calculating unit 9 in order to calculate the thermal output efficiency of the boiler. The calculated output is processed through a calorific value calculating circuit 8, a calorific value correction circuit 7 and a multiplier 6 and the deviation of the processed output from the command value of the fuel flow command circuit 2 is obtained in order to input into a PI controller 3. The PI controller 3 controls the speed command of

a coal feeder 4. In such a manner as described above, the variation of the calorific value of the fuel can be corrected so as to proportionate the fed fuel flow to the necessary heat input.

COPYRIGHT: (C)1982,JPO&Japio

